Name of the work:- Drilling of 4Nos of Borewell & fixing of Pump motor and necessary accessaries at Abbigere and Chikkasandrs in different Locations,Ward No.12,in shettyhalli Sub-Division.

ESTIMATE FOR DRILLING BORE WELLS									
Sl No.	Description of works	Unit	No	L	B	D	QTY	Rate	Amount
1	Carrying out geophysical survey Geophysical investigation of site for sinking borewell for supplying drinking water to the habitation either through the hand pump, MWS or P.W.S.S by vertical electrical sounding by adopting govenner or schiberger's method, including reconnaissance survey of geological formation, geophysical investigation of existing ground water in the vicinity, its quality and acceptability of the users indicating the location of site, recommended depth of 1.0 mtrs in consolidated formation for proper seating of casting pipe, depth of drilling required to cover full depth of acquifer proposed to be tapped, probate yield and other information required including transportation and accessories to work site, engaging technical personal and labour required etc as per the directions of the Engineer in charge. PRED SR 2012-13 P.47/I.9.4								
	Chikkasandra Village - 01 Nos	NO	4				4	1938.46	7754
	Abbigere old Village - 01Nos								
	Abbigere Jantha Colony - 01 nos								
	Chikkasandra - 01 Nos								
	Basic Rate	1882.00							
	3% Area Weightage	56.46							
	Total	1938.46							
2	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over burdern upto 20 M. fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimu working of compressor for one hour (excluding cost of casing pipes, collars, cap etc.,) (P. No.47 I. No. 9.1) PRED SR. 2012-13								
	0.00 to 50.00 mtrs (P. No.41 I. No. 9.1.1) PRED SR. 2011-12	Rmtr	4	50.00			**200.00**	315.18	**63036.00**
	50.00 to 100.00 mtrs (P. No.41 I. No. 9.1.2) PRED SR. 2011-12		4	50.00			**200.00**	412.00	**82400.00**
	100.00 to 150.00 mtrs (P. No.41 I. No. 9.1.3) PRED SR. 2011-12		4	50.00			**200.00**	458.35	**91670.00**
	150.00 to 200.00 mtrs (P. No.41 I. No. 9.1.4) PRED SR. 2011-12		4	50.00			**200.00**	484.10	**96820.00**
	200.00 to 250.00 mtrs (P. No.41 I. No. 9.1.5) PRED SR. 2011-12		4	50.00			**200.00**	560.32	**112064.00**
	Basic Rate	306.00							
	3% Area Weightage	9.18							
	Total	315.18							
3	Supply of ISI Mark 175 mm nominal Bore, Plain end Steel casing Pipe - grade of Steel Fe 410 of wall thickness 5.4mm thick confirming to IS 4270:2001 and latest amendments, electric resistance welded steel tube material and confirming to IS 1387/1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5 to 7 mts. Both ends threaded confirming to IS 554/1985, one end fixed with socket confirming to IS 4270:2001 and the other end with screwed pipes. All pipes shall be reasonably free from defects. The tubes shall be reasonably straight should be with ISI Marking, weighing 25.10kg/mtr. (Inclusive of all taxes and durties). Prices include Collar-medium duty (Material Component P. No. II/I.53) (P. No.III. No. 84) PRED SR. 2012 13								
	Casing pipe	Rmtr	4	80.00			**320.00**	1364.75	**436720.00**
	Basic Rate	1325.00							

Sl No.	Description of works	Unit	No	L	B	D	QTY	Rate	Amount
	3% Area Weightage	39.75							
	Total	1364.75							
4	Providing and fixing 250mm dia PVC casing pipe as per direction(BWSSB)SR-13-14 P.No.53.1								
		Each	4	18			**72.00**	1133.00	**81576.00**
	Basic Rate	1100.00							
	3% Area Weightage	33							
	Total	1133.00							
5	Providing 175mm dia M.S Casing capPage NO.III ,I.no.85 ,PRED 12-13								
		Each	4				**4.00**	103.00	**412.00**
	Basic Rate	100.00							
	3% Area Weightage	3							
	Total	103.00							
6	MS Casing Pipe Collars 'C' Class (PRED SR 2012-13 P-III, I.No.86)								
		Each	4	64			**256.00**	154.50	**39552.00**
	Basic Rate	150.00							
	3% Area Weightage	4.5							
	Total	154.50							
7	Supply and delivery at site brand new submersible PUMPSET suitable for borewell of 150mm dia and having declared duty conditions as detailed below and satisfying performance characteristic for pump and motor as declared by Bureau of Indian Standards. The pump should conform to Indian Specifications as per IS: 8034-1976 (with all its latest ammendments) and should bear the ISI certification mark IS 8034-1976. The pumpset should consist of bronze impellers discharge: 7500 IPH, Head: 102.88 mts, 15.00 HP 30 stage (PRED SR 2013-14 P-III, I.No.33)								
		Set	4				**4.00**	75541.17	**302164.66**
	Basic Rate	71265.25							
	6% Area Weightage	4275.92							
	Total	75541.17							
8	Providing laying and jointing of GI pipes conforming to I.S. Specification of approved make with fittings such as collers Bends Elbows Tees Nipples Plugs with cuts thread using white lead and thread for joints wherever necessary as per directions including all leads and lift etc., complete A grade (Excluding cost of fittings) 50mm dia GI pipe (Rate approved by RDED) (PRED SR 2013-14 P-III, I.No.509)								
		Rmtr	4	266			**1064.00**	340.26	**362036.64**

S No	Description of works	Unit	No	L	B	D	QTY	Rate	Amount
	Basic Rate	321.00							
	6% Area Weightage	19.26							
	Total	340.26							
9	Providing and fixing heavy duty collars (PRED SR 2012-13 P-III. I.No.86)								
		Nos	4	46			**184.00**	159.00	**29256.00**
	Basic Rate	150.00							
	6% Area Weightage	9							
	Total	159.00							
10	Supply and drawing 3 core flat sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS 8130-1984 and virgin grade PVC insulation and sheather suitable for working voltage upto 1100 volts as per 1x3x4 sqmm of 56 strands 0.3mm dia Group A (SR 2012-13 P.III.No. 30 C-1)								
		Mtr	4	576			**2304.00**	164.29	**378512.64**
	Basic Rate	159.50							
	3% Area Weightage	4.79							
	Total	164.29							
11	Supplying and delivery at site brand new /Essen / Lotus sunsines / Adarsh / GK controls best indigenous make combine energy meter - cum-control panel board unit of size 1200x600x300 mm minimum mechanically strong and vermin and water proof. The unit shall have two detachable doors suitable for operation on 3ph, 50 Hz, 380/440 volts, AC supply with spring loaded latch locking with a key ribs should be provided inside the door, canopy apron and louvers ventillators shall be provided the combine energy meter cum - control panel board unit suitable for operation on 3ph, 50 Hz, 380/440 AC supply shall be consisted etc., complete T panel board shall be fabricated on single unit in the above components panel board for suitable pumpset above 6.50 HP to 12.5 HP with star Delta starter.								
		no	4				**4.00**	14800.00	**59200.00**
12	Fabricating supplying and mounting MS cox of 16 SWG suitable for floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locing arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sq cm and Rs. 0.35(BWSSBSR 2013-14 P.530 I.No. 39 b,)								
A	for 1 borewell	Sqm Cm	4	1100	20		88000.00	0.34	**29911.20**

Sl No	Description of works	Unit	No	L	B	D	QTY	Rate	Amount
	Basic Rate	0.33							
	3% Area Weightage	0.01							
	Total	0.34							
13	Providing and fixing of Clamps set and borewell cap to the pump (as per SPD Rate)								
		Nos	4				**4.00**	690.00	**2760.00**
14	Supply and delivery of brand new best make Non-return valve of size 50mm as per IS: 778/84 with latest ammendments with ISI mark BCSR page no. 90 item no. 13.62 (P.NO-XXIV,SI.I.NO-673,PWD 13-14 SR)								
		Nos	4	3			**12.00**	1696.00	**20352.00**
	Basic Rate	1600.00							
	6% Area Weightage	96.00							
	Total	1696.00							
15	Supply and delivery of brand new best make Gate wheel of size 50mm as per IS: 778/84 with latest ammendments with ISI mark (Rate approved by RDED) 50mm Gate wheel valve for distributer pipeline (P.NO-XXIV,SI.I.NO-659,PWD 13-14 SR)								
		Nos	4	3			**12.00**	1213.70	**14564.40**
	Basic Rate	1145.00							
	6% Area Weightage	68.70							
	Total	1213.70							
16	Supplying and fixing 50mm GI Bend To Motor (P.NO-XXXVIII,,PWD 13-14 SR GI Fittings Table)								
		Nos	4	3			**12.00**	232.14	**2785.68**
	Basic Rate	219.00							
	6% Area Weightage	13.14							
	Total	232.14							
17	Supplying and fixing 50mm GI Nipple to motor(P.NO-XXXVIII,,PWD 13-14 SR GI Fittings Table)								
		Nos	4	3			**12.00**	110.56	**1326.70**
	Basic Rate	104.30							
	6% Area Weightage	6.26							
	Total	110.56							
18	Supplying and fixing 50mm GI Union to the motor(P.NO-XXXVIII,,PWD 13-14 SR GI Fittings Table)								
		Nos	4	3			**12.00**	237.12	**2845.46**
	Basic Rate	223.70							
	6% Area Weightage	13.42							
	Total	237.12							
19	Labour Charges for end connection(MR)								
		Nos	4				**4.00**	400.00	**1600.00**

Sl No	Description of works	Unit	No	L	B	D	QTY	Rate	Amount
20	Labour Charges for erections of new/repaired submersible pumpset along with GI pipes (32-50mm) cable(new submersible pumpset if required will be supplied by the department free of cost and released pump set should be handed over to deprtment) including transportation(each length = 8.00m)(P.No - 564,I.no.-3 ,BWSSB SR13-14								
		Per Length	4	52			**208.00**	90.64	**18853.12**
	Basic Rate	88.00							
	3% Area Weightage	2.64							
	Total	90.64							
21	Erection of combined panel board and meter unit with necessary materials and labour including providing cement concrete 1:3:6foundation bed out door type etc., complete. Page:53, It:12(6)								
		Nos	4	1			**4.00**	475.00	**1900.00**
22	Supplying and fixing miniature circuit breakers/isolators on existing MCB distribution boards using necessary fixing materials and wiring complete as required - 40 to 63(P.NO 526,I.NO13D(a),BWSSB SR 13-14)								
		Nos	4	1			**4.00**	906.40	**3625.60**
	Basic Rate	880.00							
	3% Area Weightage	26.40							
	Total	906.40							
23	Supplying and laying of L.T.U.G cable having aluminium conductor PVC insulated sheathed galvanised steel wire/steel tape armoured cable with PVC outer sheating 1.1 KV class 4 core16 sqm cable(confirming to IS 1554)(P.NO 553,I.NO10(d),BWSSB SR 13-14)								
		Mtr	4	30			**120.00**	169.95	**20394.00**
	Basic Rate	165.00							
	3% Area Weightage	4.95							
	Total	169.95							
24	Digging of trenches of 0.6mm x 0.50 Mtrs wide refilling the trench to the required ground level and consolidating etc., complete sutting road surfaces (P.NO 554,I.NO12(b),BWSSB SR 13-14)								
		Mtr	4	30			**120.00**	56.65	**6798.00**
	Basic Rate	55.00							
	3% Area Weightage	1.65							
	Total	56.65							
25	Supplying and fixing Class A GI pipe on pole / wall drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class 40mm As per rate approved by SR page no. 69, item no. 15 A								
		Mtr	4	3			**12.00**	294.58	**3534.96**

Sl No.	Description of works	Unit	No	L	B	D	QTY	Rate	Amount
	Basic Rate	286.00							
	3% Area Weightage	8.58							
	Total	294.58							
26	Supplying. fixing, wiring earth electrode for grounding conduits, IC cutouts and other equipments on the meter board using 40mm dia 2.90 mm thick GI pipe 2.5m long buried in a pit. The pit should be filled with equal proportion of salt and charcoal 150mm alround the pipe to complete depth. The connection from the pipe to the conduct etc., is to be established though GI wire of size as per ISI specification 7.3.3 IS 732 using 12mm dia bolts,nuts,wsahers and check nuts etc., the pipe shall have 16 throught holes of 122mm dia (P.NO 552,I.NO-7,BWSSB SR 13-14)								
		Nos	4				**4.00**	1699.50	**6798.00**
	Basic Rate	1650.00							
	3% Area Weightage	49.50							
	Total	1699.50							
27	Supplying and fixing LT cast iron pot heads suitable for 1.1 KV Class UG cable filled with necessary bitumin insulating compound complete with terminals, clamps. Bolts nuts and washers etc., (P.NO 555,I.NO16(b),BWSSB SR 13-14)								
		Nos	4				**4.00**	271.92	**1087.68**
	Basic Rate	264.00							
	3% Area Weightage	7.92							
	Total	271.92							
28	Supplying shunt capacitor conforming to IS 2834.3 phase 400/440 volts grade for power factor improvement of rotating machinery capacitor in KVAR rating Nos 2 KVAR capacity (PWD Ele. SR 10-11 P:40, It no. 33(a)								
		Nos	4				**4.00**	1350.00	**5400.00**
29	Providing and fixing Gun Metal Gate wheel valves confirming to IS Specification of approved make as per direction including all lead and lift etc compelte 50mm dia (p.223/I.5a)								
		Nos	4	3.00			**12.00**	1515.80	**18189.60**
	Basic Rate	1430.00							
	6% Area Weightage	85.80							
	Total	1515.80							

Sl No.	Description of works	Unit	No	L	B	D	QTY	Rate	Amount
30	Supplying and fixing of polished wood board made of not less than 15mm thick plank on both sides with planks made out on not more than 2 pieces and fixing the same to wall using tapered inverted wooden plugs scerws etc., Size 20x20x2.5 inches(P.NO 521,I.NO2(f),BWSSB SR 13-14)								
		Nos	4				**4.00**	311.58	**1246.30**
	Basic Rate	302.50							
	3% Area Weightage	9.08							
	Total	311.58							
31	KSRB: Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications (Page No. 5, Item No. 2.4,PWD SR 13-14)								
		Cum	4	44.5	0.6	0.9	**72.09**	223.66	**16123.65**
	Basic Rate	211.00							
	6% Area Weightage	12.66							
	Total	223.66							
32	Providing and installing at site of work 63mm (0.662) P.V.C. pipes of 6 KG/cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe allround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete (P.no. 12, I. NO. 3.4.2.a) b) 63mm 6 KSC/Smtr Borewell surrounding connections(Page No. 102. Item No. 13.73.1,PWD SR 13-14)								
		Mtr	4	44.5			**178.00**	352.98	**62830.44**
	Basic Rate	333.00							
	6% Area Weightage	19.98							
	Total	352.98							
33	Providing and installation at site of work 20mm GI pipes including cost of pipes and specials and labour including lowering into trenches, laying true to line, complete as per direction of engineer in charge for public taps. For Motor/pipeline(Page No. 102, Item No. 13.73.1,PWD SR 13-14)								
		Rmt	4	12			**48.00**	125.00	**6000.00**

Sl.No.	Description	Unit	Nos	L	B	D	Qty.	Rate	Amount
34	Refilling available earth around pipe lines. cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications (P.NO - 6, I.NO - 2.11, PWD SR 13-14)								
		Cum	4	44.50	0.60	0.90	**96.12**	59.36	**5706.00**
	Basic Rate	56.00							
	6% area weightage	3.36							
	Total	**59.36**	**cum**						
35	KPTCL Deposit charges	L/S	4				**4.00**	13300.00	**53200.00**
	K. R. I. D. L Charges 10% + 1% Labour Cess							**Sub Total**	2455179=00 2700697=00 32.00 198=00
	Q.C. Charges 1%								
36	Miscelaneous and rounding off								
								TOTAL	**2750000.00**
Rs. Twenty Seven Lakhs Fifty Thousand Only									

CERTIFICATE:-

1 The Work spot has been inspected and the work is found to be necessary

2 The Estimate is prepared as per the PRED SR 2012-13 and PW,P & IWTD SR 2013-14 and BWSSB Electrical SR 2013-14

3 The Provision made in estimate are adequate and essential.

4 This area comes under BBMP limits.

Assistant Engineer
Ward-12

Asst. Exeutive Engineer
Shettyhalli Sub-division
BBMP, Bangalore

Exeutive Engineer
Dasarahalli division
BBMP, Bangalore

A/S

AS/870/13-14 ದಿನಾಂಕ: 04/03/14

(Rupees Twenty Seven Lakhs Fifty Thousand only)

4/3/14

CE/DZ/TS/AS 1128-15

ನಂ. PgN. 70 ದಿನಾಂಕ: 20/5/2014

ರೂ. 27,50,000/- (ಇಪ್ಪತ್ತೇಳು ಲಕ್ಷದ ಐವತ್ತು ಸಾವಿರ ರೂಪಾಯಿ ಮಾತ್ರ)

ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

ಮುಖ್ಯ ಅಭಿಯಂತರರು

ತಾಂತ್ರಿಕ ಸಹಾಯಕರು ಬಿ.ಜಿ.ಪಂ.

ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.